

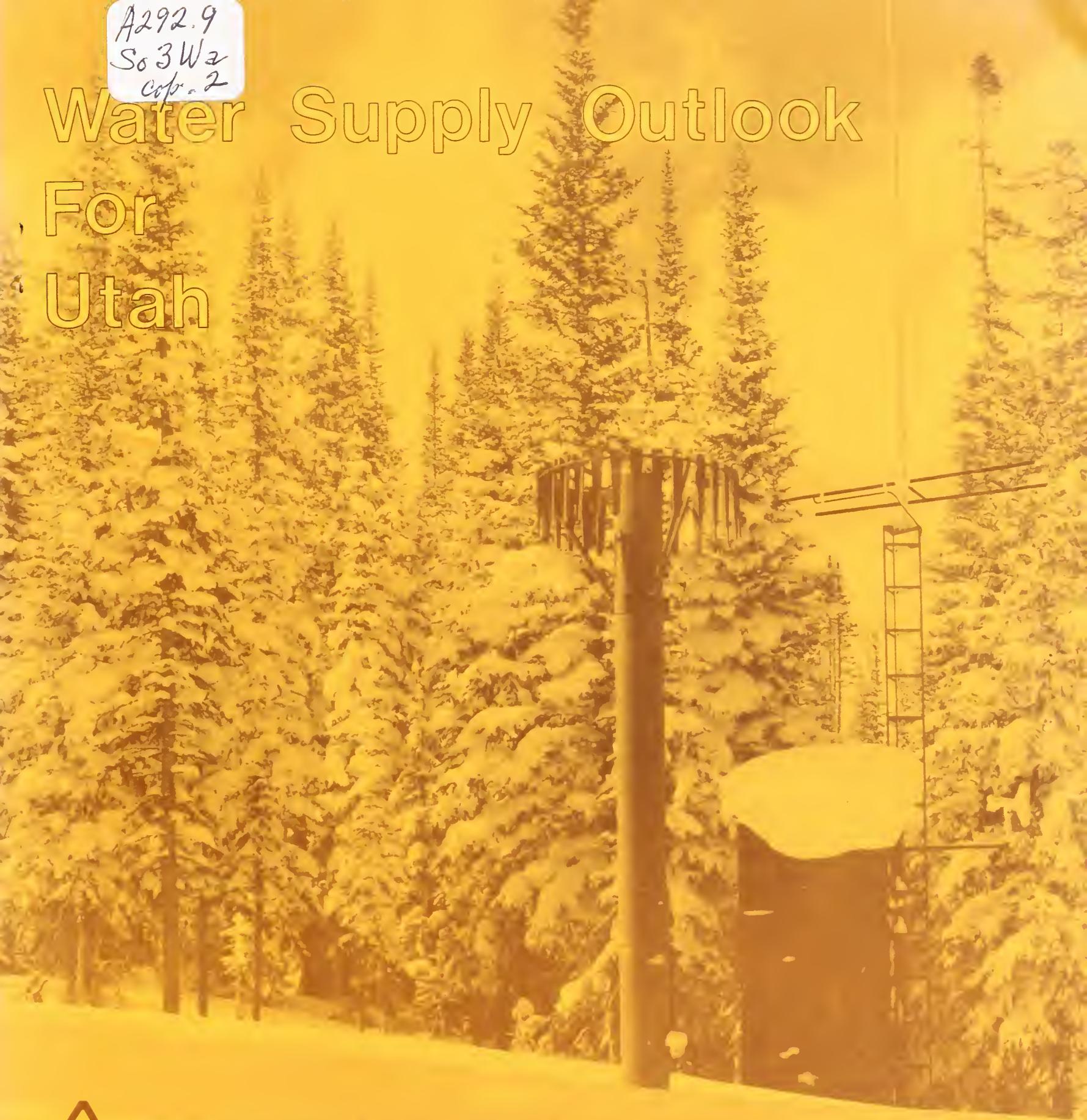
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Water Supply Outlook For Utah



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

UTAH STATE DEPARTMENT of NATURAL RESOURCES
-- DIVISION of WATER RIGHTS

AS OF
JUNE 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOWTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

| STATE | ADDRESS |
|--------------------|--|
| Alaska | Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504 |
| Arizona | Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025 |
| Colorado (N. Mex.) | P. O. Box 17107, Denver, Colorado 80217 |
| Idaho | Room 345, 304 N. 8th. St., Boise, Idaho 83702 |
| Montana | P. O. Box 98, Bozeman, Montana 59715 |
| Nevada | P. O. Box 4850, Reno, Nevada 89505 |
| Oregon | 1220 S. W. Third Ave., Portland, Oregon 97204 |
| Utah | 4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138 |
| Washington | 360 U. S. Court House, Spokane, Washington 99201 |
| Wyoming | P. O. Box 2440, Casper, Wyoming 82602 |

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

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SALT LAKE CITY, UTAH

In Cooperation with
UTAH STATE DEPT. OF NATURAL RESOURCES

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SNOW SURVEY SECTION
4012 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

WATER SUPPLY OUTLOOK

as of
June 1, 1979

SNOW COVER

Limited ground measurements were taken this month, as there was little snow to be found at all but the highest locations. The warm temperatures and winds during May resulted in rapid snow melt, with many northern Utah sites baring out early in the month.

PRECIPITATION

Precipitation activity during May was limited to thunderstorm activity in northern Utah, and resulted in below average catches. Southern Utah did receive more widespread rainfall, however, totals for the month were only near average. Seasonal totals continue the below to near average trend in northern Utah, while southern Utah amounts are above average.

SOIL MOISTURE

Watershed soils were drier than earlier anticipated, and soaked up early snow melt water. Profiles have improved, but northern Utah is still below normal, while southern Utah soils are above average.

RESERVOIR STORAGE

Major facilities are full or will fill shortly. Minersville Reservoir is reported to be near it's emergency spillway elevation, with inflow continued high.

STREAMFLOW

The U.S. Geological Survey reports that flows in May were near normal in the northern part of the state, in the above normal range in east-central Utah, and excessive in the south. Seasonal increases were recorded on most index streams in the north, while southern streams had sharp increases, with the Beaver River two times median.

The level of the Great Salt Lake reached its highest elevation for the water year on May 15, 1979, at 4199.90 feet. By months end it was down to 4199.80 feet.

Irrigation with Surface Spring Runoff - Be Cautious
Fred Christenson
Irrigation Water Management Specialist

June 4, 1979

What will the irrigator do with the extra early summer runoff? All too often, this plentiful water supply is used for an early presoaking of the grass and legume crops. The water is either used on corrugations or contour ditch (wild flooding) as long as it is available. The irrigator is then confident he has filled the soil profile to full capacity, and water will be available later in the summer when the runoff has ceased.

However, this seemingly good management practice has its drawbacks, and the crop will most likely suffer. First of all, the cold water will retard plant growth. Secondly, the saturated soil has a greatly reduced air content in the normal root zone and is highly detrimental to root growth. Consequently, the roots will draw water from near the surface rather than the normal three to five foot depth. Later in the summer the plant with an underdeveloped root zone will not produce it's anticipated growth. Frequent irrigations can be expected.

Another factor to consider is the possible soil erosion. As the water is continuously run over the soil, the intake rate diminishes, and the soil particles will be loosened and carried away.

For the above reasons, the extra runoff should be used in good judgement, and better yet, used for other beneficial means.

For further information or assistance, contact your local Soil Conservation Service office.

SOIL CONSERVATION SERVICE

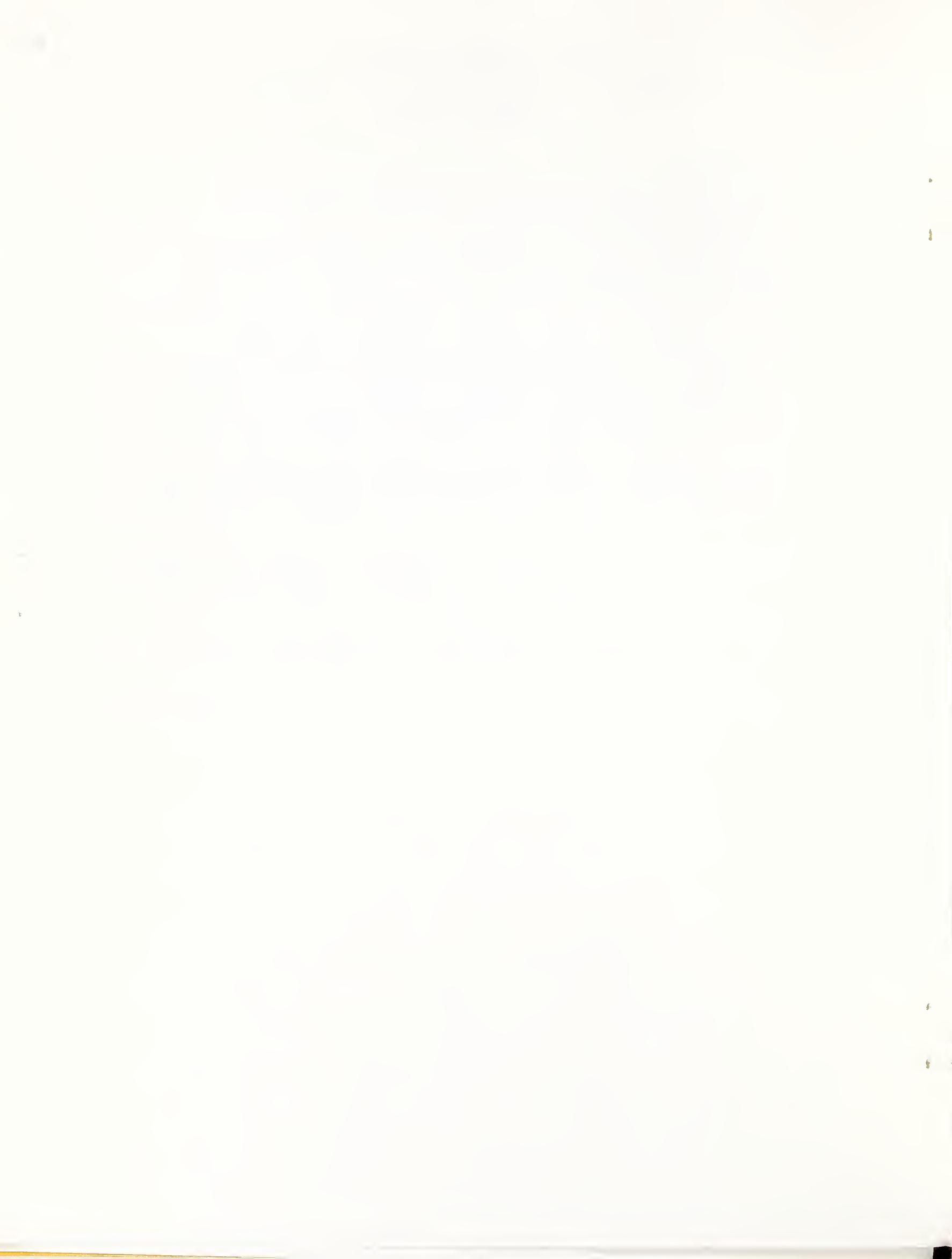
SNOTEL SYSTEM

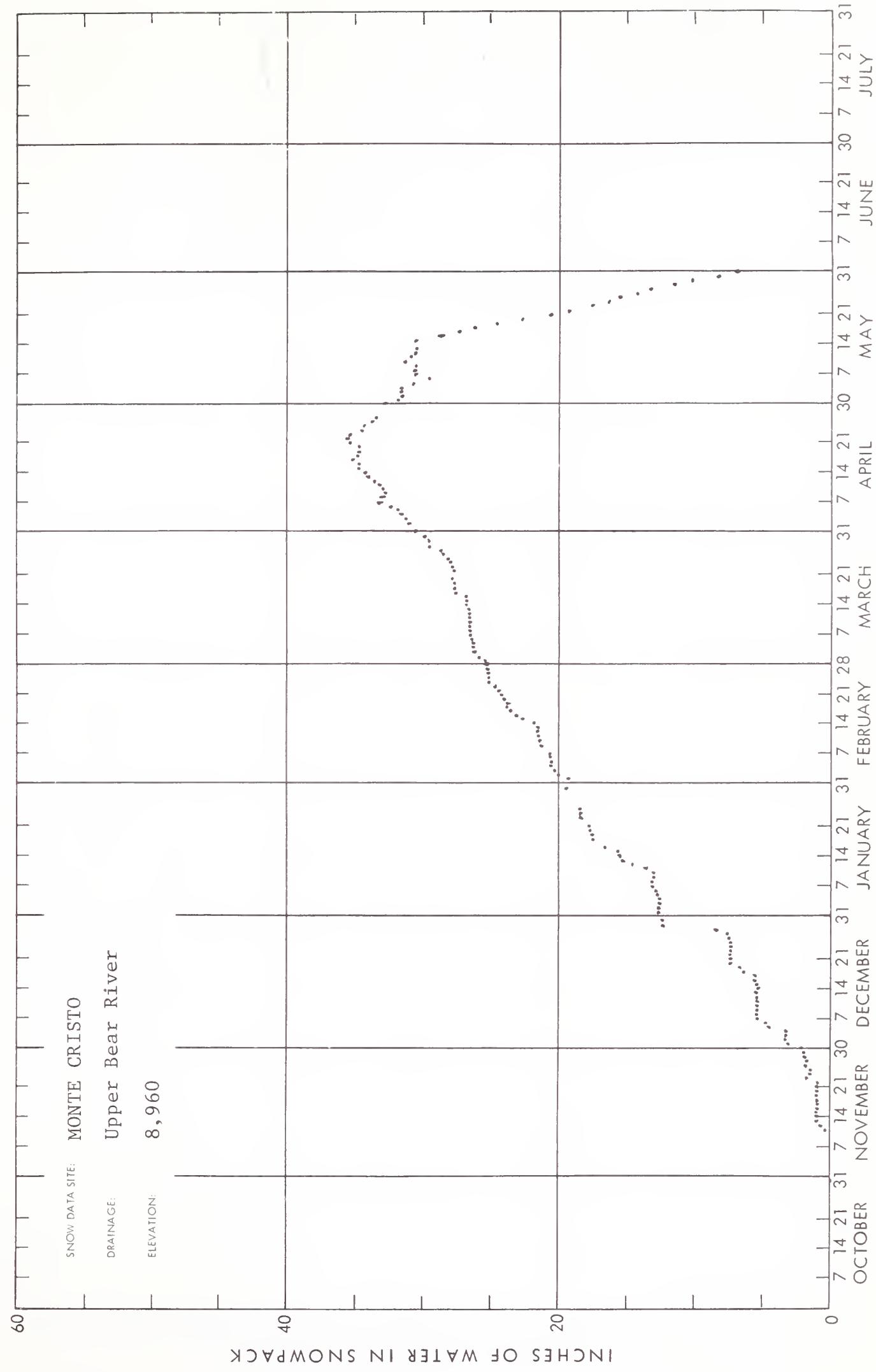
This winter, Utah's 40 operational SNOTEL data collection stations have been reporting twice daily information on snowpack conditions.

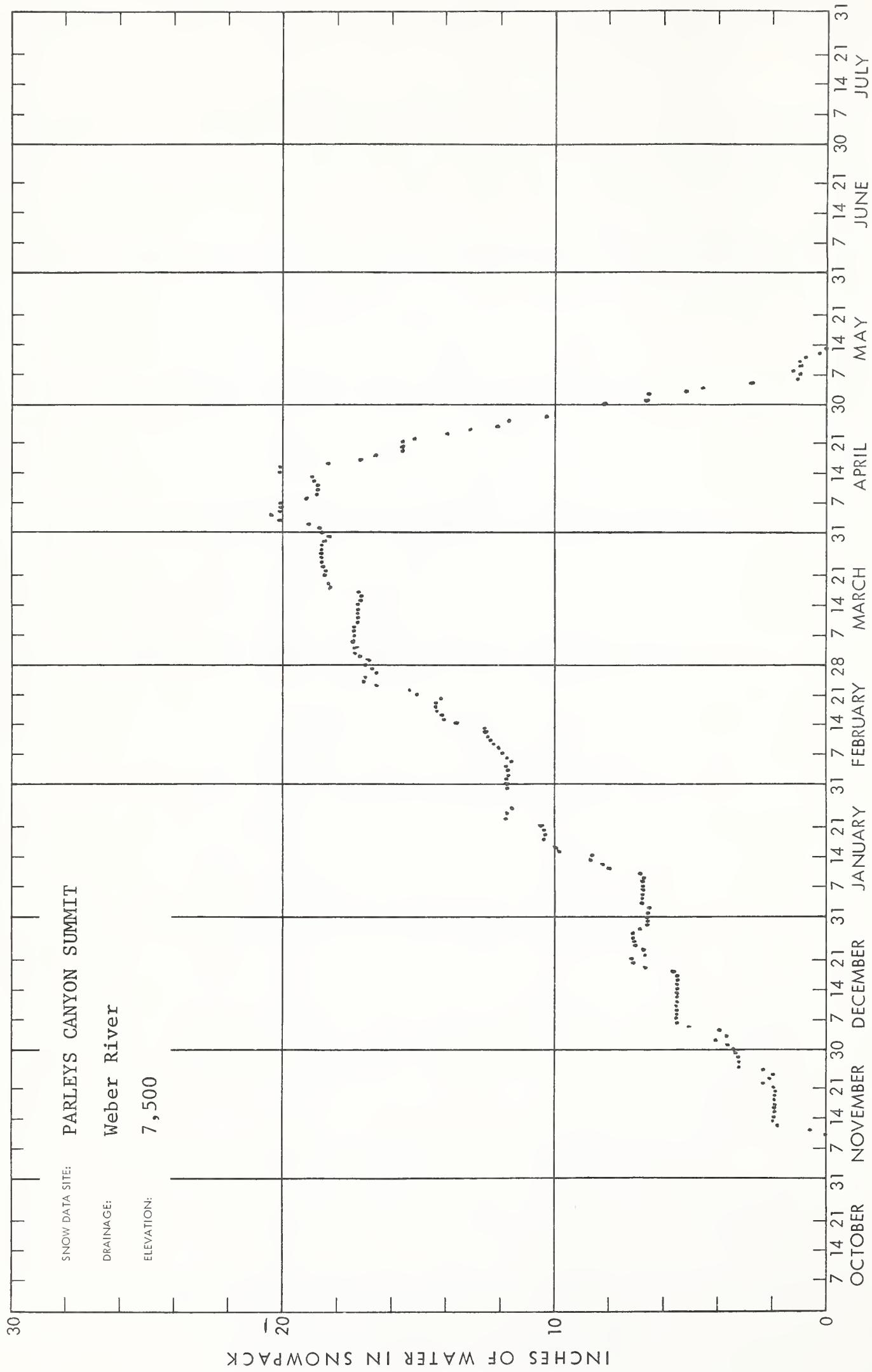
This automated system will ultimately include 63 sites in Utah and over 500 west-wide.

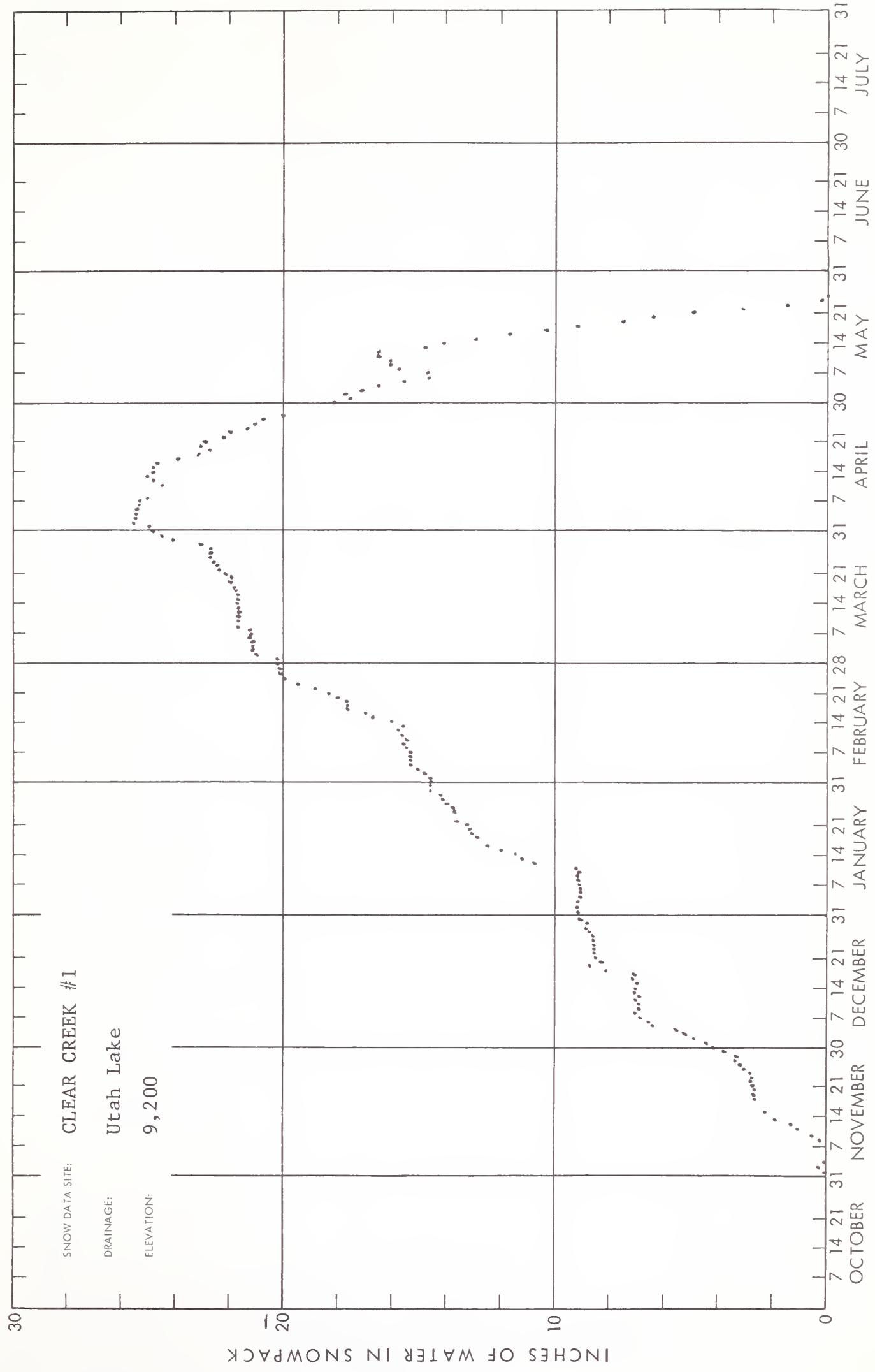
Daily information on snow water content, accumulated precipitation totals, air temperature, and other related data provides hydrologists with timely information which can aid water users in making important decisions. This system can additionally be used as a warning system for flood potential, fire weather monitoring, and remote area weather conditions.

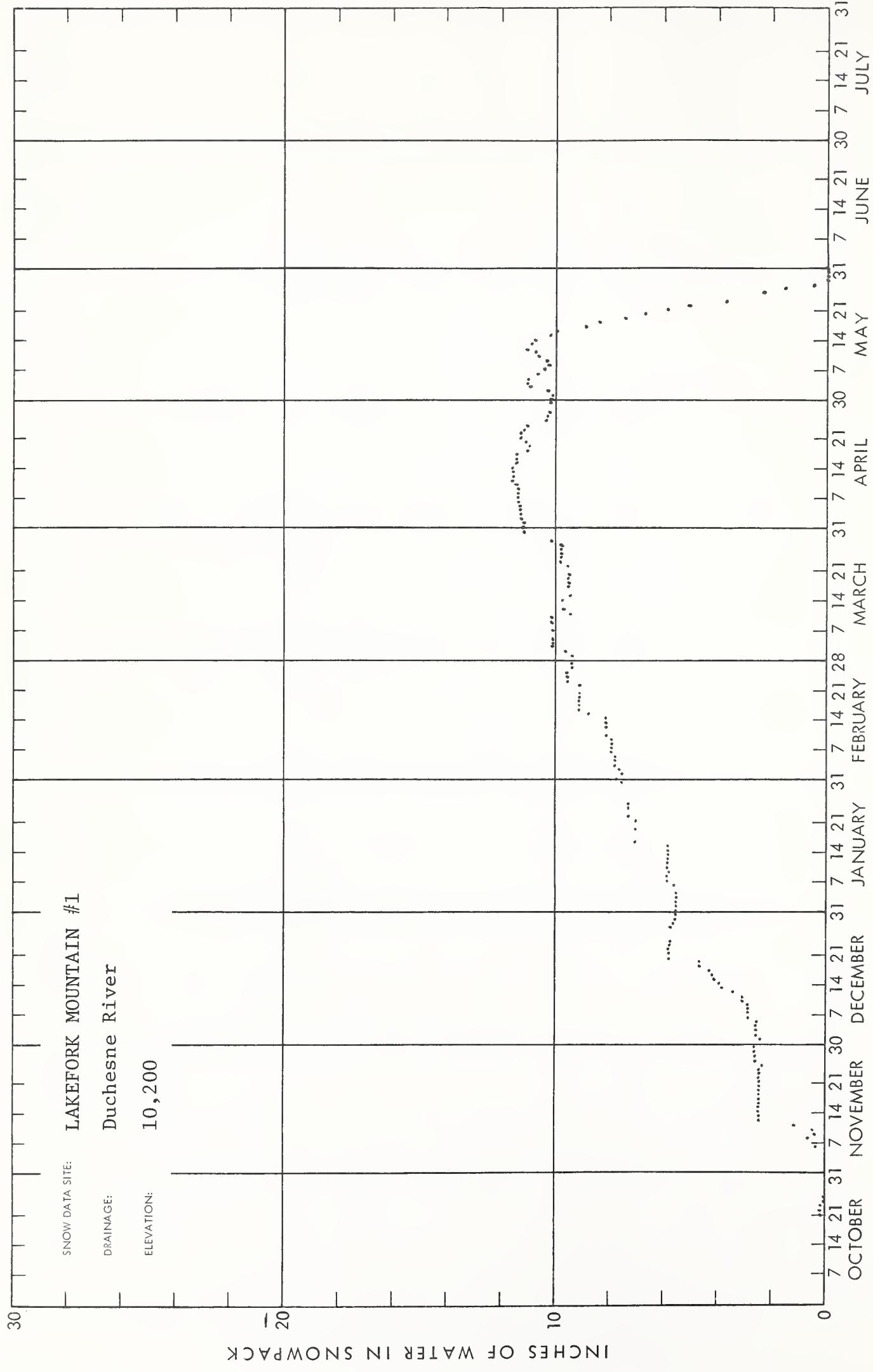
Snowpack graphs for a scattering of Utah SNOTEL sites accompanies this report. Data for this year is available on 40 sites.

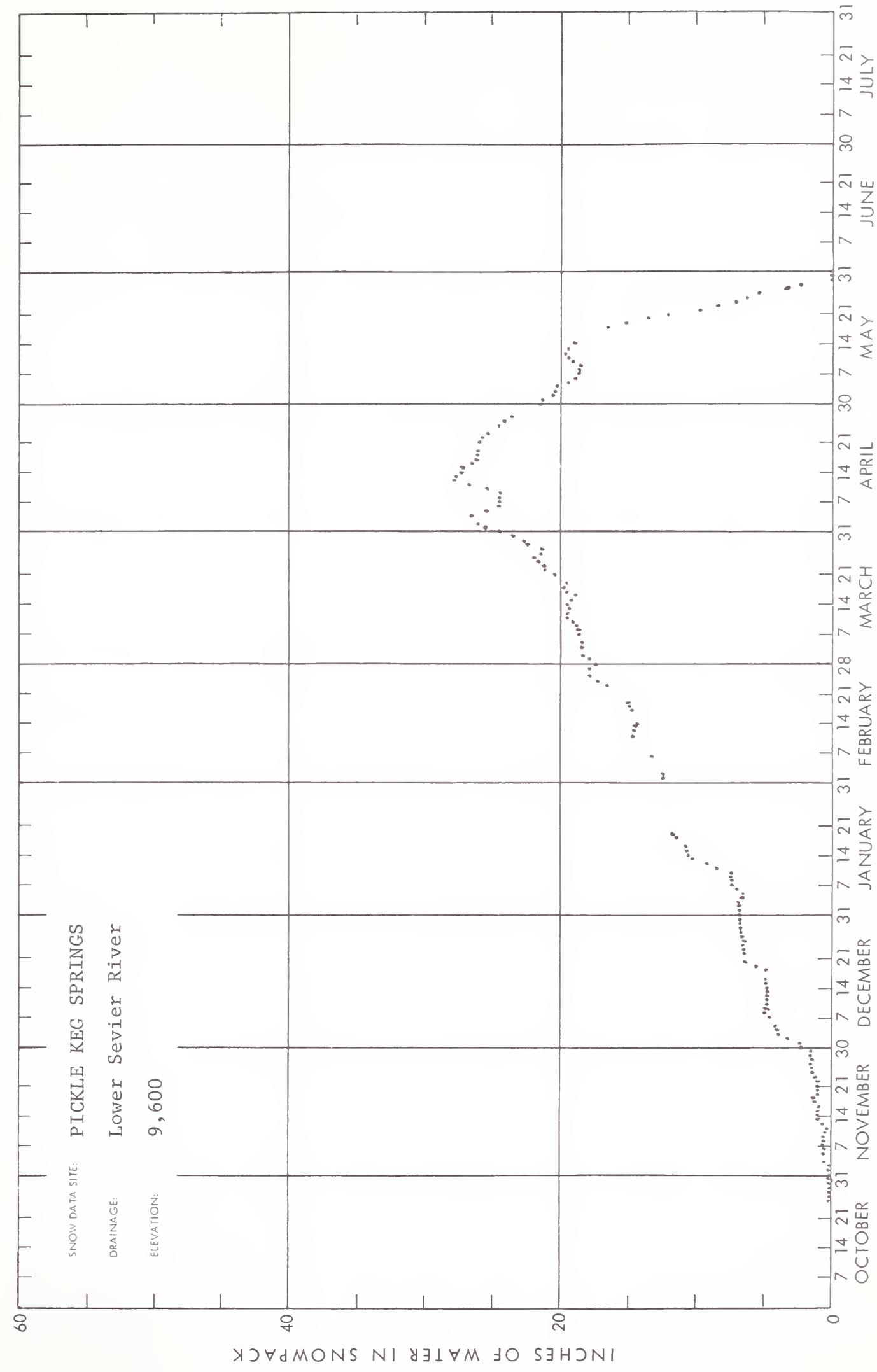


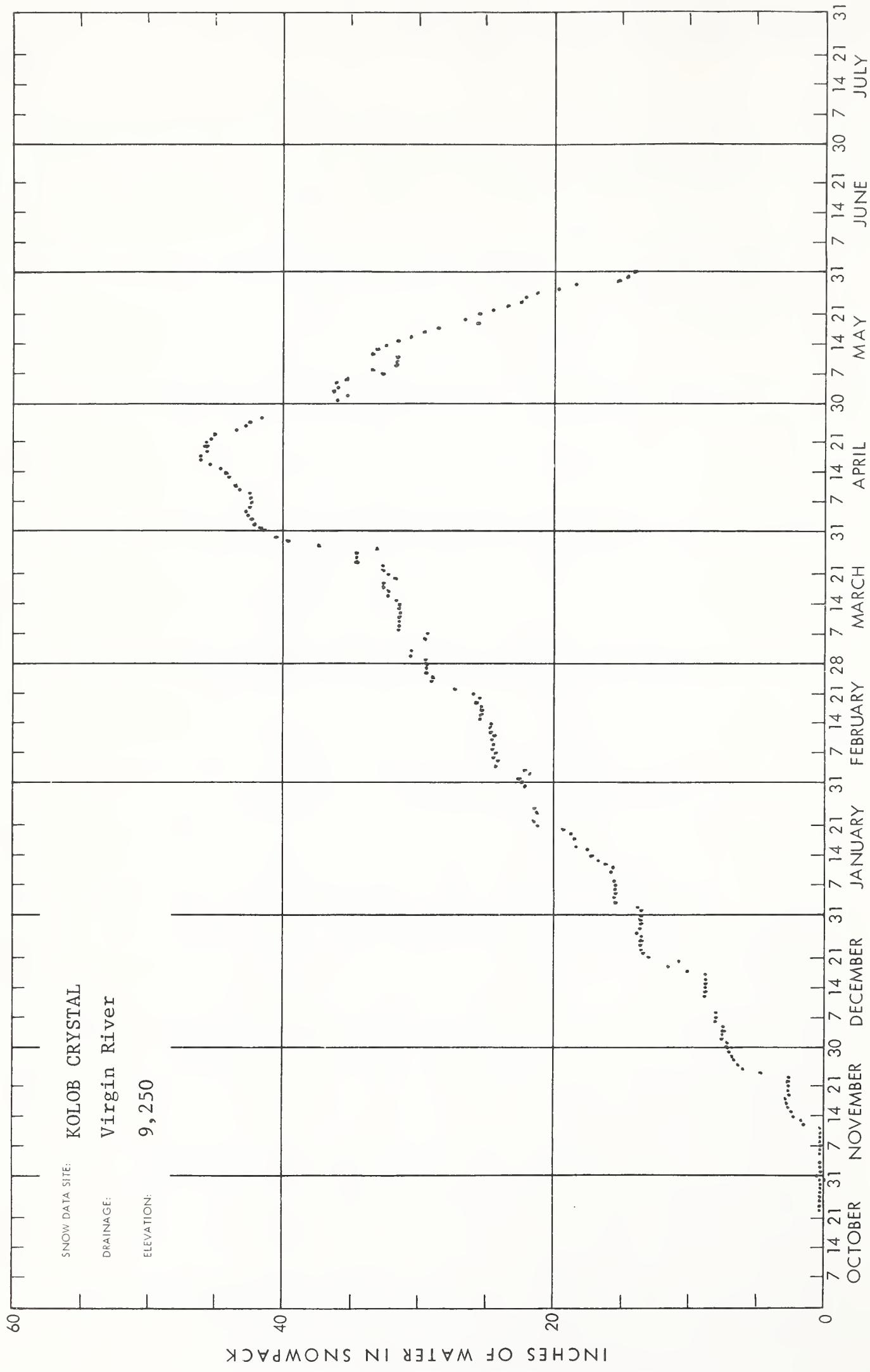












SNOW

| DRAINAGE BASIN and/or SNOW COURSE NAME | THIS YEAR | | | PAST RECORD | | PRECIPITATION (Inches) | | | | | | |
|---|----------------|---------------------|------------------------|------------------------|---------|------------------------|-----------------------|---------|----------------------------|-----------|---------|-----|
| | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Water Content (Inches) | | CURRENT INFORMATION | | | FROM APPROX. OCT 1 TO DATE | | | |
| | | | | Last Year | 2 Years | Date of Reading | Month's Precipitation | Average | + | This Year | Average | + |
| GREAT BASIN | | | | | Ago | | | | | | | |
| UPPER BEAR RIVER (Above Harer, Idaho) | | | | | | | | | | | | |
| Burts-Miller Ranch | 5/25 | 0 | 0.0 | 0.0 | 0.0 | 6/1 | Not Measured | | | | | |
| Hayden Fork | 6/1 | 0 | 0.0a | 0.8 | 0.0 | 5/29 | 2.40a | 3.02b | | 23.83a | 27.16 | 87 |
| Monte Cristo R.S. | 5/29 | 4 | 1.7 | 19.6 | 0.0 | 5/31 | 3.92 | 2.83 | | 34.34 | 34.00 | 101 |
| Salt River Summit | | | | | | | 1.19 | 1.47 | | 19.50 | 21.23 | 91 |
| Stillwater Camp | 5/25 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| LOWER BEAR RIVER (Below Harer, Idaho) | | | | | | | | | | | | |
| Bug Lake | 6/1 | 0 | 0.0a | 0.0 | -- | | | | | | | |
| Cub River R.S. | | | | | | | | | | | | |
| Franklin Basin | 6/1 | 0 | 0.0a | 19.8 | 0.0 | | | | | | | |
| Garden City Summit | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 2.16 | 2.14b | | 23.37 | 24.47 | 95 |
| Klondike Narrows | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 2.74 | -- | | 21.77 | -- | -- |
| Little Bear (lower) | 5/29 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Little Bear (upper) | 5/29 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Steep Hollow #1 | | | | | | | | | | | | |
| Steep Hollow #2 | 5/30 | 0 | 0.0 | 8.9 | 0.0 | | | | | | | |
| Tony Grove Lake | 6/1 | 0 | 0.0a | 30.2 | 0.0 | | | | | | | |
| Tony Grove R.S. | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 1.95 | -- | | 21.57 | -- | -- |
| Willow Flat | | | | | | 6/1 | 2.65 | 2.85b | | 26.64 | 30.36 | 87 |
| OGDEN RIVER | | | | | | | | | | | | |
| Beaver Creek-Skunk Creek | 5/29 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Ben Lomond Peak | 6/1 | 32 | 14.2a | 31.3 | 1.9 | | | | | | | |
| Ben Lomond Trail | 5/29 | 0 | 0.0 | -- | -- | 5/29 | 3.34 | 3.05b | | 34.18 | 37.17b | 91 |
| Causey Dam | | | | | | 5/29 | 1.53 | 1.86b | | 16.59 | 18.50 | 89 |
| Dry Bread Pond | 5/29 | 0 | 0.0 | 2.7 | 0.0 | 6/1 | 2.80a | 2.62b | | -- | 27.90 | -- |
| Sagebrush Flat | 5/29 | 0 | 0.0 | 0.0 | 0.0 | 5/29 | 1.82 | 1.75b | | 17.58 | 18.58 | 94 |
| WEBER RIVER | | | | | | | | | | | | |
| Beaver Creek R.S. | 5/25 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Chalk Creek #1 | 6/1 | 6 | 3.1a | 17.6 | 0.0 | | | | | | | |
| Chalk Creek #2 | 6/1 | 0 | 0.0a | 0.0 | 0.0 | 6/1 | 1.50a | 2.25 | | -- | 19.64 | -- |
| Chalk Creek #3 | 5/25 | 0 | 0.0 | 0.0 | 0.0 | 5/25 | 1.15 | -- | | 13.40 | -- | -- |
| East Shingle Lake (A) | 5/25 | 24 | 12.0e | 38.9 | 0.0 | | | | | | | |
| Farmington Canyon (lower) | 6/1 | 0 | 0.0a | 0.0 | 0.0 | | | | | | | |
| Farmington Canyon (upper) | 6/1 | 0 | 0.0a | 21.1 | 0.0 | | | | | | | |
| Farmington G.S. | 6/1 | 0 | 0.0a | -- | -- | | | | | | | |
| Horse Ridge | 5/25 | 0 | 0.0 | 0.0 | 0.0 | 6/1 | 2.50a | 2.62b | | 30.27 | 31.00 | 97 |
| Killfoil Creek | 6/1 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Lost Creek Reservoir | 6/1 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Parley's Canyon Summit | 5/31 | 0 | 0.0 | 0.0 | 0.0 | 5/31 | 1.35 | 2.80 | | 24.75 | 30.38 | 81 |
| Redden Mine (lower) | | | | | | | | | | | | |
| Redden Mine (upper) | | | | | | | | | | | | |
| Sergeant Lake (A) | 5/25 | 0 | 0.0 | 2.2 | 0.0 | | | | | | | |
| Smith & Morehouse | 5/25 | 0 | 0.0 | 0.0 | 0.0 | 5/25 | 1.17 | 2.46 | | 17.99 | 24.47 | 73 |
| PROVO RIVER & UTAH LAKE | | | | | | | | | | | | |
| Beaver Creek Divide | 6/1 | 0 | 0.0a | 0.0 | 0.0 | | | | | | | |
| Camp Altamont | 5/29 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Clear Creek Ridge #1 | 5/29 | 0 | 0.0 | 4.0 | 0.0 | | | | | | | |
| Clear Creek Ridge #2 | 4/29 | 0 | 0.0 | 0.0 | 0.0 | 5/29 | 1.70 | 2.01 | | 21.72 | 21.38 | 101 |
| Clear Creek Ridge #3 | 5/29 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Dutchman R.S. | 5/29 | 0 | 0.0 | 0.0 | 0.0 | 5/29 | 1.60 | 2.64b | | -- | 27.63 | -- |
| Hobble Creek Summit | 5/29 | 0 | 0.0 | 0.0 | 0.0 | 5/29 | 1.60 | 2.15 | | 21.60 | 22.54 | 95 |
| Payson R.S. | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 1.75 | 1.98 | | 25.80 | 23.51 | 109 |
| Rock Bridge | 5/30 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Soapstone R.S. | 5/25 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| South Fork R.S. | 5/31 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Timpanogos Cave Camp | 5/29 | 0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Timpanogos Divide | 5/29 | 0 | 0.0 | 4.4 | 0.0 | 4/29 | 1.80 | 2.78 | | 33.25 | 32.17 | 103 |
| Trial Lake | 5/25 | 34 | 17.5 | 30.5 | 0.0 | 5/25 | 1.68 | 2.72 | | 28.34 | 31.45 | 90 |
| JORDAN RIVER & GREAT SALT LAKE | | | | | | | | | | | | |
| Lamb's Canyon #2 | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 1.18 | -- | | 21.23 | -- | -- |
| Middle Canyon | 5/31 | 0 | 0.0 | 0.0 | 0.0 | 5/31 | 2.30 | 2.86b | | 24.00 | 23.06 | 104 |

SNOW

| DRAINAGE BASIN and/or SNOW COURSE NAME | THIS YEAR | | | PAST RECORD | | PRECIPITATION (Inches) | | | | | |
|--|----------------|---------------------|------------------------|------------------------|---------|------------------------|-----------------------|-----------|----------------------------|-----------|--------------------|
| | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Water Content (Inches) | | CURRENT INFORMATION | | | FROM APPROX. OCT 1 TO DATE | | |
| | | | | Last Year | 2 Years | Date of Reading | Month's Precipitation | Average + | This Year | Average + | Percent of Average |
| <u>JORDAN RIVER & GREAT SALT LAKE</u> | {cont'd} | | | | Ago | | | | | | |
| Mill Creek | 5/30 | 0 | 0.0 | 6.5 | -- | | | | | | |
| Mill D South Fork | 5/30 | 0 | 0.0 | 0.0 | -- | | | | | | |
| Mt. Dell Dam | | | | | | | | | | | |
| Silver Lake (Brighton) | 5/30 | 0 | 0.0 | -- | -- | | | | | | |
| Vernon Creek | 5/31 | 0 | 0.0 | 0.0 | 0.0 | 5/31 | Data Delayed 2.45 | 2.05b | 23.45 | 19.90 | 117 |
| <u>UPPER SEVIER RIVER</u> (South of Richfield, Utah) | | | | | | | | | | | |
| Box Creek | | | | | | | | | | | |
| Castle Valley | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 2.28 | 1.62 | 31.53 | 18.75 | 168 |
| Duck Creek R.S. | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 2.00 | 1.91 | 32.93 | 21.55 | 152 |
| Harris Flat | 5/30 | 0 | 0.0 | 0.0 | 0.0 | | | | | | |
| Kimberly Mine | 5/29 | 8 | 3.3 | 10.2 | 0.0 | 5/29 | 4.23 | 2.15b | 32.73 | 24.76 | 132 |
| Midway Valley | 5/30 | 44 | 23.2 | 26.0 | 0.0 | 5/30 | 1.50 | -- | -- | -- | -- |
| Panguitch Lake | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 1.27 | 1.04 | 18.12 | 10.43 | 173 |
| Squaw Springs | | | | | | | | | | | |
| <u>LOWER SEVIER RIVER</u> (Including San Pitch River) | | | | | | | | | | | |
| Beaver Dams | 6/1 | 0 | 0.0 | 0.0 | 0.0 | 6/1 | 2.60 | 2.10b | 23.10 | 18.44 | 125 |
| Farnsworth Lake | | | | | | | | | | | |
| G.B.R.C. Headquarters | 6/1 | Not Measured | 0 | 0.0 | 2.4 | 6/1 | 3.10 | 2.38 | 27.80 | 24.93 | 111 |
| G.B.R.C. Majors | | | | | | 6/1 | 2.05 | 1.51b | 15.90 | 12.17 | 130 |
| G.B.R.C. Meadows | | | | | | | | | | | |
| G.B.R.C. Oaks | | | | | | | | | | | |
| Gooseberry R.S. | 6/1 | 0 | 0.0 | 0.0 | 0.0 | 6/1 | 2.30 | 1.78 | 19.45 | 16.66 | 116 |
| Mammoth-Cottonwood Creek | 5/31 | 0 | 0.0 | 12.4 | 0.0 | 6/1 | 3.15 | -- | 21.40 | -- | -- |
| Middle Fork | | | | | | | | | | | |
| Mt. Baldy R.S. | | | | | | | | | | | |
| Oak Creek | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | -- | 1.83b | 24.27 | 21.62 | 112 |
| Pickle Keg Springs | 6/1 | 0 | 0.0a | 5.8 | 0.0 | | | | | | |
| Pine Creek | 5/30 | 0 | 0.0 | 13.2 | 0.0 | | | | | | |
| Ree's Flat | | | | | | | | | | | |
| Shingle Mill | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 2.95 | 2.14b | 22.20 | 21.69 | 102 |
| Thistle Flat | | | | | | | | | | | |
| Widtsoe-Escalante #3 | 5/30 | 6 | 2.4 | 0.0 | 2.4e | 5/30 | 2.55 | 1.81 | 28.45 | 17.02 | 167 |
| <u>BEAVER RIVER</u> | | | | | | | | | | | |
| Beaver Race Track | 5/31 | 0 | 0.0 | 0.0 | 0.0 | | | | | | |
| Beaver Canyon Power House | | | | | | | | | | | |
| Big Flat | 6/1 | 64 | 27.7a | 26.8 | 0.0 | 6/1 | Data Delayed 3.00a | 2.71 | 32.49a | 21.71 | 149 |
| Merchant's Valley (upper) | 5/29 | 0 | 0.0 | 0.0 | 0.0 | 5/29 | 2.66 | 1.88 | 27.59 | 19.09 | 144 |
| Otter Lake | | | | | | | | | | | |
| <u>PAROWAN CREEK</u> | | | | | | | | | | | |
| Birch Crossing | | | | | | | | | | | |
| Brian Head | 5/30 | Not Measured | 35 | 17.8 | 18.4 | 5/30 | 2.70 | 1.42b | 24.25 | 19.79b | 122 |
| Tall Poles | 5/30 | 0 | 0.0 | 0.0 | 0.0 | 5/30 | 2.72 | 1.43 | 22.95 | 16.57 | 138 |
| Yankee Reservoir | 5/30 | 0 | 0.0 | 0.0 | 0.0 | | | | | | |
| <u>ENTERPRISE TO NEW HARMONY DRAINAGES</u> | | | | | | | | | | | |
| Little Grassy Creek | | | | | | | | | | | |
| Long Flat | | | | | | | | | | | |
| <u>COAL CREEK</u> | | | | | | | | | | | |
| Cedar City Golf Course | 5/30 | 0 | 0.0 | 0.0 | 0.0 | | | | | | |
| SUSC Ranch | 5/30 | 0 | 0.0 | 0.0 | 0.0 | | | | | | |
| <u>COLORADO RIVER DRAINAGE</u> | | | | | | | | | | | |
| <u>UPPER GREEN RIVER - UTAH</u> | | | | | | | | | | | |
| Ashley-Twin Lakes (A) | 5/25 | 24 | 12.0e | 14.0 | 0.0 | | | | | | |
| Black's Fork G.S.-East Fork | 5/25 | 0 | 0.0 | 0.0 | 0.0 | | | | | | |
| Black's Fork Junction | | | | | | | | | | | |
| Buck Pasture (A) | 5/25 | 3 | 1.5e | 11.4 | 0.0 | | | | | | |
| Burnt Creek | 5/31 | 0 | 0.0 | 0.0 | 0.0 | 5/31 | Not Measured 1.95 | 2.78b | 14.07 | 14.97 | 93 |

SNOW

| DRAINAGE BASIN and/or SNOW COURSE NAME | THIS YEAR | | | PAST RECORD | |
|---|----------------|---------------------|------------------------|-------------------------------------|-------------|
| | Date of Survey | Snow Depth (inches) | Water Content (inches) | Water Content (inches) Last Year | 2 Years Ago |
| UPPER GREEN RIVER - UTAH (cont'd) | | | | | |
| Grizzly Ridge | 5/31 | 0 | 0.0 | 0.0 | 0.0 |
| Henry's Fork (A) | 5/25 | 0 | 0.0 | 15.2 | 0.0 |
| Hewinta G.S. | 5/25 | 0 | 0.0 | 0.0 | 0.0 |
| Hickerson Park | 5/25 | 0 | 0.0 | 0.0 | 0.0 |
| King's Cabin (upper) | 5/31 | 0 | 0.0 | 0.0 | 0.0 |
| Reynolds Park (A) | 5/25 | 21 | 10.5e | 16.2 | 0.0 |
| Spirit Lake | 5/25 | 6 | 3.0e | 6.1 | 0.0 |
| Steel Creek Park | 5/25 | 12 | 6.0e | 19.1 | 0.0 |
| Trout Creek | 5/25 | 0 | 0.0 | 0.0 | 0.0 |
| Windy Park (A) | 5/25 | 5 | 2.5e | 4.7 | 0.0 |
| DUCESNE RIVER | | | | | |
| Atwood Lake (A) | 5/25 | 12 | 6.0e | 12.2 | 0.0 |
| Brown Duck Ridge | 6/1 | 24 | 12.0a | 18.9 | 2.0 |
| Chepeta-Whiterocks (A) | 5/25 | 23 | 11.5e | 13.0 | 0.0 |
| Currant Creek | 5/25 | 0 | 0.0 | 0.0 | 0.0 |
| Daniels-Strawberry Summit | 5/24 | 0 | 0.0 | 0.0 | 0.0 |
| East Portal | 5/31 | 0 | 0.0 | 0.0 | — |
| Five Points Lake (A) | 5/25 | 24 | 12.0e | 15.6 | 3.0 |
| Indian Canyon | 5/1 | 0 | 0.0a | 0.0 | 0.0 |
| Jackson Park | | Not Measured | | | |
| Lakefork Basin (A) | 5/25 | 30 | 15.0e | 22.8 | 0.0 |
| Lakefork Mountain | 6/1 | 0 | 0.0a | 3.8 | 0.0 |
| Lakefork Mountain #3 | 5/1 | 0 | 0.0 | 0.0 | 0.0 |
| Lightning Lake (A) | 5/25 | 36e | 18.0e | 33.6 | 3.0 |
| Mosby Mountain | 6/1 | 0 | 0.0a | 5.7 | 0.0 |
| Paradise Park | | Not Measured | | | |
| Rock Creek Ranch | 5/24 | 0 | 0.0 | 0.0 | 0.0 |
| Strawberry Divide | 6/1 | 0 | 0.0a | 0.0 | 0.0 |
| PRICE RIVER | | | | | |
| Dry Valley Divide Alternate | | Not Measured | | | |
| Gooseberry Reservoir | | | | | |
| Mud Creek | 5/30 | 0 | 0.0 | 0.0 | 0.0 |
| White River # 1 | 5/30 | 0 | 0.0 | 0.0 | 0.0 |
| White River #3 | | Not Measured | | | |
| SAN RAFAEL RIVER | | | | | |
| Buck Flat | 6/1 | 0 | 0.0a | 11.4 | 0.0 |
| Huntington-Horseshoe | 5/31 | 22 | 10.3 | 30.8 | 1.2 |
| Orange Olsen | 5/29 | 0 | 0.0 | 0.0 | 0.0 |
| Red Pine Ridge | 6/1 | 0 | 0.0a | 1.6 | 0.0 |
| Seeley Creek R.S. | 6/1 | 0 | 0.0a | 16.8 | 0.0 |
| Stuart R.S. | 5/31 | 0 | 0.0 | 0.0 | 0.0 |
| Upper Joe's Valley | | Not Measured | | | |
| Wrigley Creek | | Not Measured | | | |
| MUDY RIVER | | | | | |
| Black's Fork | | Not Measured | | | |
| Dill's Camp | | Not Measured | | | |
| FREMONT RIVER | | | | | |
| Black's Flat-U.M. Creek | | Not Measured | | | |
| Donkey Reservoir | | Not Measured | | | |
| Fish Lake | | Not Measured | | | |
| Johnson Valley | | Not Measured | | | |
| SOUTHEASTERN UTAH DRAINAGES | | | | | |
| Buckboard Flat | 5/30 | 0 | 0.0 | 0.0 | 0.0 |
| Camp Jackson | 5/30 | 0 | 0.0 | 0.0 | 0.0 |
| LaSal Mountain (lower) | 5/31 | 0 | 0.0 | 0.0 | 0.0 |
| LaSal Mountain (upper) | 5/31 | 0 | 0.0 | 2.3 | 0.0 |
| Monticello City Park | 5/31 | 0 | 0.0 | 0.0 | 0.0 |
| VIRGIN RIVER | | | | | |
| Kolob-Crystal | 6/1 | 26 | 14.6a | 22.8 | 0.0 |
| Long Valley Junction | 5/30 | 0 | 0.0 | 0.0 | 0.0 |

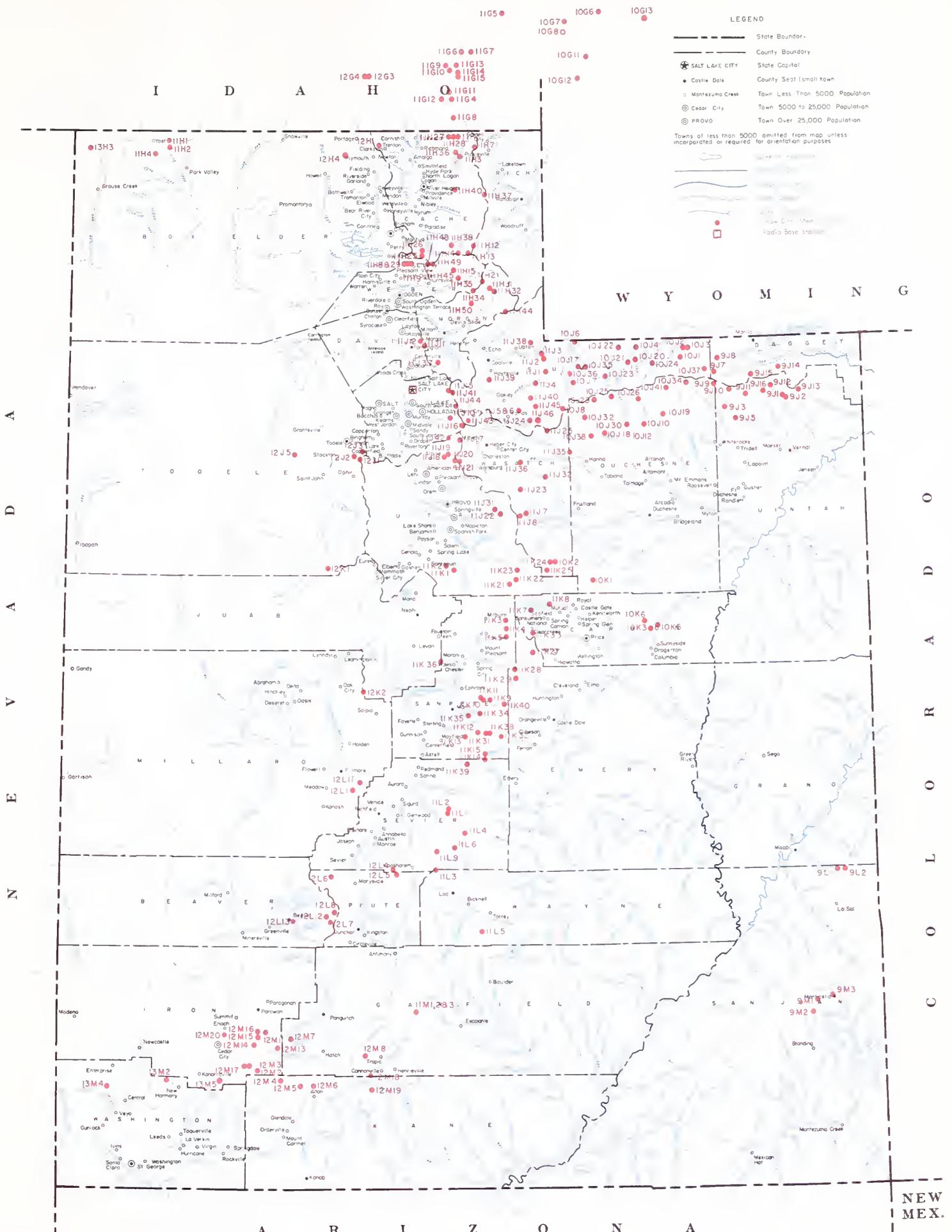
PRECIPITATION (Inches)

| CURRENT INFORMATION | | | FROM APPROX. DCT | | | TO DATE |
|---------------------|-----------------------|---------|------------------|---------|---|--------------------|
| Date of Reading | Month's Precipitation | Average | This Year | Average | + | Percent of Average |
| 5/31 | 1.75 | 2.90b | 20.35 | 19.50 | | 104 |
| | Not Measured | | | | | |
| 5/31 | 2.35 | 2.57b | 12.42 | 15.54 | | 79 |
| 5/31 | 2.38 | 3.01 | 17.37a | 17.59 | | 98 |
| | Not Measured | | | | | |
| 5/24 | .87 | 1.58b | 22.79 | 17.78 | | 128 |
| 5/24 | 1.15 | 1.90b | 23.55 | 22.99 | | 102 |
| | Data Delayed | | | | | |
| | Not Measured | | | | | |
| 6/1 | 1.90a | 2.60 | 17.89a | 18.30 | | 97 |
| 6/1 | 2.40a | 2.62b | 20.63a | 17.80 | | 115 |
| 5/24 | 1.74 | 1.83 | 15.60 | 15.35 | | 101 |
| 5/31 | 2.45 | 2.33 | 28.74 | 24.04 | | 119 |
| 5/30 | 2.05 | 1.95 | 21.20a | 19.16 | | 110 |
| 5/30 | 1.60 | 1.71b | 21.58 | 17.77 | | 121 |
| 5/1 | 2.30a | 2.52 | 26.75a | 22.97 | | 116 |
| 5/29 | 1.30 | .97b | 13.55 | 9.50 | | 142 |
| 6/1 | 1.70a | 2.22 | 26.30a | 25.61 | | 102 |
| 5/31 | 1.70 | 1.65 | 16.68 | 15.42 | | 108 |
| | . | | | | | |
| 5/30 | 3.98 | 1.94 | 36.54 | 22.83 | | 160 |
| 5/30 | 3.70 | 1.56 | 38.33 | 20.76 | | 184 |
| 5/31 | 3.49 | 2.21 | 26.73 | 19.38 | | 137 |

SNOW

| DRAINAGE BASIN and/or SNOW COURSE NAME | THIS YEAR | | | PAST RECORD | | PRECIPITATION (Inches) | | | | | |
|--|----------------|---------------------|------------------------|------------------------|-----------|------------------------|-----------------------|---------|----------------------------|---------|--------------------|
| | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Water Content (Inches) | | CURRENT INFORMATION | | | FROM APPROX. OCT 1 TO DATE | | |
| | | | | Last Year | Average + | Date of Reading | Month's Precipitation | Average | This Year | Average | Percent of Average |
| VIRGIN RIVER (cont'd) | | | | | | | | | | | |
| Webster Flat | | Not Measured | | | | | | | | | |
| a - Partly Estimated | | | | | | | | | | | |
| b - Average of past record in average period | | | | | | | | | | | |
| + - 1963-77 15 year average period | | | | | | | | | | | |
| (A) - Aerial Marker Reading | | | | | | | | | | | |
| e - Estimated | | | | | | | | | | | |

a - Partly Estimated
 b - Average of past record in average period - less than 15 years
 + - 1963-77 15 year average period
 (A) - Aerial Marker Reading
 e - Estimated



SNOW COURSES AND RELATED DATA MEASURING SITES ITALY

UTAH

1978



USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

20 0 20 40
SCALE 1:1,500,000
ALBERS EQUAL AREA PROJECTION

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

| NO. | STATE | NAME | SEC | TWP. | RGE | ELEV. | NO. | STATE | NAME | SEC | TWP. | RGE | ELEV. | NO. | STATE | NAME | SEC | TWP. | RGE | ELEV. | |
|--------------------------------------|-------|---------------------------|------|------|------|-------|--------|---------|---|------------------------|------|-----|-------|-----------|--------|---------------------------|---|-------|-----|--------|--------|
| UPPER BEAR RIVER (above Haer, Idaho) | | | | | | | | | | | | | | | | | | | | | |
| 10G11 | W | Big Park | 7 | 27N | 117W | 8,700 | 1125P | U | PROVO RIVER & UTAH LAKE (continued) | 9 | 3S | 8E | 7,800 | 22 | 15 | 21E | 8,730 | 8,730 | | | |
| 10G16P | W | Burns-Miller Ranch | 19 | 29N | 10E | 7,900 | 1119 | U | Soapstone R.S.; South Fork R.S.; Timpanogos Cave Camp | 24 | 4S | 2E | 6,100 | 9J1PST | U | King's Cabin (upper) | 1N | 1N | 17E | 10,680 | |
| 10G7 | W | CCC Camp | 9 | 29N | 10E | 7,500 | 1119 | U | Timpanogos Divide | 27 | 4S | 2E | 5,500 | 10J3P | U | Middle Beaver Creek | 31 | 3N | 16E | 8,650 | |
| 10J3P | W | Gold Hill | 15 | 25 | 1N | 9E | 10,000 | 1018P | U | Triad Lake | 33 | 4S | 3E | 8,140 | 9J1oP | U | Reynolds Park | 9 | 9 | 18E | 10,400 |
| 10J7PST | U | Hayden Fork | 25 | 26N | 1N | 9E | 9,400 | 10J8PST | U | Furnace Canyon (lower) | 5 | 5 | 9E | 8,960 | 9J1oP | U | Spirit Lake | 10 | 1N | 17E | 10,300 |
| 10J12 | W | Kelly Ranger Station | 13 | 26N | 1E | 8,200 | 1012P | U | Fringmont Canyon (upper) | 26N | 2N | 7E | 8,000 | 9J1oP | U | Stiel Creek Park | 17 | 2N | 13E | 10,100 | |
| 10J3P | W | Lily Lake | 34 | 26N | 1E | 9,500 | 1012P | U | Francis Canyon | 34 | 2S | 6E | 9,000 | 10J20PST | U | Trout Creek | 9 | 15 | 13E | 10,000 | |
| 10G12PST | U | Mante Crista R.S. | 4 | 30N | 4E | 8,900 | 1012P | U | Hardscrable | 30N | 4E | 6E | 9,000 | 9J16PST | U | Windy Park | 2 | 2 | 20E | 9,400 | |
| 10G6 | W | Paisan Meadow | 29 | 30N | 16W | 8,500 | 1012P | U | Sergeant Lakes | 29 | 15 | 4S | 4W | 6,450 | 9J12P | U | Shingle Mill Flat | 23 | 15 | 20E | 9,400 |
| 10G8P | W | Paisan Meadow x | 32 | 29N | 15W | 8,500 | 1012P | U | Smith & Marthouse | 32 | 2N | 4W | 9,250 | 9J12P | U | Smith & Marthouse | 22 | 15 | 20E | 9,400 | |
| 10G15MP | W | Paisan Meadow x | 32 | 29N | 15W | 8,400 | 1012P | U | St. King's Cabin (lower) | 32 | 2N | 4W | 9,250 | 9J12P | U | St. King's Cabin (lower) | 23 | 26 | 20E | 9,400 | |
| 10J7P | U | Stillwater Camp | 32 | 29N | 15W | 8,550 | 1012P | U | Trout Creek | 32 | 2N | 4W | 9,250 | 9J12P | U | Trout Creek | 23 | 26 | 20E | 9,400 | |
| LOWER BEAR RIVER (below Haer, Idaho) | | | | | | | | | | | | | | | | | | | | | |
| 11H37PST | U | Bug Lake | 18 | 11N | 5E | 7,950 | 114E | U | UPPER SEvier RIVER (South of Richfield, Utah) | 21 | 15 | 4S | 4W | 7,500 | 10J41P | U | UPPER SEvier RIVER (South of Richfield, Utah) | 13 | 4N | 4W | 10,840 |
| 11G11P | U | Christensen Ranch | 27 | 13S | 41E | 5,600 | 1142P | U | Box Creek | 8 | 4S | 3W | 7,000 | 10J30PST | U | Brown Duck Ridge | 8 | 4N | 6W | 10,600 | |
| 11H38P | U | Christensen Ranch | 5 | 8N | 3E | 7,300 | 1142P | U | Byce Canyon | 25 | 15 | 2E | 6,950 | 9J30P | U | Chepeta-Interacks Lakes | 3 | 4N | 1W | 10,550 | |
| 11G12P | U | Christensen Ranch | 29 | 14N | 41E | 6,300 | 124PST | U | Castle Valley | 18 | 2S | 3E | 7,400 | 10J10PST | U | Current Creek | 26 | 15 | 1W | 8,000 | |
| 11G13P | U | Christensen Ranch | 5 | 13S | 42E | 7,350 | 124PST | U | Duck Creek R.S. | 30 | 4S | 3W | 8,900 | 11J320PST | U | Daniels-Strawberry Summit | 20 | 25 | 12W | 8,000 | |
| 11H26PST | U | Clarkton Mountain | 34 | 13S | 42E | 7,350 | 124PST | U | Fairview | 35 | 2S | 3E | 8,725 | 11J230PST | U | East Portal | 36 | 25 | 12W | 7,360 | |
| 11H39P | U | Cub River Ranger Station | 30 | 13S | 42E | 7,350 | 124PST | U | High-Top Mountain | 18 | 3S | 3E | 8,700 | 11J27P | U | Five Point Lake | 28 | 4N | 5W | 11,300 | |
| 11G14P | U | Dry Basin | 31 | 13S | 42E | 7,350 | 124PST | U | Kimberly Mine | 21 | 15 | 3E | 7,500 | 10J26P | U | Five Point Lake | 21 | 15 | 10E | 9,100 | |
| 12C4 | U | Dry Creek Flat | 21 | 12S | 42E | 6,500 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J19P | U | Five Point Lake | 25 | 3N | 4W | 10,600 | |
| 11G6 | U | Emigration Canyon (mouth) | 24 | 12S | 42E | 8,000 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J19P | U | Five Point Lake | 28 | 5N | 3W | 11,000 | |
| 11H7PST | U | Garden City Summit | 34 | 3S | 42E | 7,350 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 23 | 2N | 4W | 10,200 | |
| 11H7AP | U | Garden City Summit | 35 | 3S | 42E | 7,600 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11H40P | U | Garden City Summit | 31 | 13S | 42E | 7,200 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11H13P | U | Garden City Summit | 10 | 14N | 3E | 7,400 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11H26P | U | Garden City Summit | 16 | 8N | 1E | 6,000 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 12G3 | U | Little Bear (upper) | 22 | 8N | 1E | 6,550 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11G5 | U | Little Bear (upper) | 32 | 13S | 37E | 6,800 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11H27 | U | Little Creek Divide | 7 | 14N | 3E | 6,225 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11H28 | U | Sheep Hollow #1 | 9 | 14N | 3E | 6,200 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11G9 | U | Sheep Hollow #2 | 9 | 14N | 3E | 6,200 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11G10 | U | Sheep Hollow #3 | 9 | 14N | 3E | 6,200 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11H39P | U | Sheep Hollow #4 | 9 | 14N | 3E | 6,200 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 11H39P | U | Sheep Hollow #5 | 9 | 14N | 3E | 6,200 | 124PST | U | Midway Valley | 21 | 15 | 3E | 7,500 | 10J20P | U | Five Point Lake | 33 | 3N | 4W | 8,400 | |
| 13H29 | U | Clear Creek Meadows | 26 | 14N | 14W | 9,050 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 32 | 13S | 4E | 8,200 | |
| 13H4P | U | Clear Creek Meadows | 4 | 13N | 14W | 9,000 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 13H3P | U | Clear Creek Meadows | 13H1 | 13N | 14W | 9,000 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 13H3P | U | Clear Creek Meadows | 13H3 | 13N | 14W | 9,000 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 13H29 | U | Clear Creek Meadows | 26 | 14N | 14W | 9,050 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 13H4P | U | Clear Creek Meadows | 4 | 13N | 14W | 9,000 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 13H3P | U | Clear Creek Meadows | 13H1 | 13N | 14W | 9,000 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 13H3P | U | Clear Creek Meadows | 13H3 | 13N | 14W | 9,000 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H14AM | U | Beever Creek-Skunk Creek | 22 | 8N | 3E | 7,150 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H95T | U | Ben Lomond Peak | 3 | 7N | 7N | 8,000 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H13P | U | Ben Lomond (lower) | 1 | 7N | 7N | 8,000 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H29P | U | Causey Dam | 34 | 7N | 7N | 5,600 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H39P | U | Cutter Creek | 3 | 7N | 7N | 5,600 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H39P | U | Dry Creek | 19 | 8N | 4E | 6,780 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H39P | U | Dry Creek | 19 | 8N | 4E | 6,780 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H44P | U | Dry Creek | 16 | 7N | 4E | 6,830 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H44P | U | Dry Creek | 16 | 7N | 4E | 6,830 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H44P | U | Dry Creek | 16 | 7N | 4E | 6,830 | 124PST | U | Rees's Flat | 24 | 2S | 3E | 7,500 | 11K3PST | U | SAN RAFAEL RIVER | 14 | 15 | 13E | 7,970 | |
| 11H39P | U | Dry Creek | 20 | 6N | 5E | 7,300 | 124PST | U</ | | | | | | | | | | | | | |

Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation



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domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

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with the Snow Survey"*